

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A toroidal-type continuously variable transmission, comprising:
first and second disks respectively including inner surfaces and disposed so as to be concentric with each other and rotated with respect to each other;
a plurality of power rollers which are interposed between and held by the mutually facing inner surfaces of the first and second disks and which transmits for transmitting force between the first and second disks;
a support member swingable and shiftable about a pivot shaft in transmission with the power rollers rotatably supported;
an actuator of an oil pressure type including a cylinder, a piston and a pair of oil pressure chambers separated by the piston, and which shifts the support member in the axial direction of the pivot shaft in accordance with supply and exclusion of the pressure oil in the pair of oil pressure chambers;
a pressing device of an oil pressure type which presses for pressing the first disk toward the second disk by a pressing force;
a main oil pressure control unit which: [[,]]
for non-electrically detects a difference between oil pressures in the pair of oil pressure chambers detecting the force to be transmitted between the first and second disks, and
the main oil pressure control unit setting sets an oil pressure, as a target value of the pressing force of the pressing device, an oil pressure in accordance with the difference between the oil pressures in the pair of pressure chambers, the oil pressure being necessary for the pressing device to generate a pressing force necessary when a transmission ratio between the first and second disks is a transmission ratio requiring a maximum pressing force, and increasing the target value as the pressing force increases; and [[,]]

an oil pressure correcting apparatus which:

for electrically finds finding a necessary value of the oil pressure, the necessary value corresponding to the optimum value of such the pressing force to be generated by the pressing device as to vary according to the transmission ratio between the first and second disks, and

~~also for introducing~~ introduces into the pressing device an oil pressure of a value into the pressing device, ~~the oil pressure of the value being~~ obtained by subtracting a correction value, which is a difference between the necessary value and the target value, from the target value.

2. (canceled)

3. (Original) A toroidal-type continuously variable transmission as set forth in Claim 1, wherein an operation device constituting the oil pressure correcting apparatus finds a correction signal according to the transmission ratio and the temperature of lubricating oil existing in the interior of the toroidal-type continuously variable transmission and the rotation speed of a drive source, and, in accordance with the correction signal, the correction value of the oil pressure is obtained by opening and closing an electromagnetic valve in accordance with the correction signal.

4. (Canceled)

5. (new) A toroidal-type continuously variable transmission as set forth in claim 1,

wherein the main oil pressure control unit comprises a first valve that outputs a differential pressure in accordance with the difference between the oil pressures in the pair of oil pressure chambers, and

wherein the main oil pressure control unit sets the oil pressure as the target value in accordance with the outputted differential pressure.

6. (new) A toroidal-type continuously variable transmission as set forth in claim 5,

wherein the oil pressures in the pair of oil pressure chambers are inputted into the first valve and the first valve outputs the differential pressure in accordance with the difference between the oil pressure in the pair of oil pressure chambers.

7. (new) A toroidal-type continuously variable transmission as set forth in claim 5,

wherein the oil pressure correcting apparatus comprises a second valve into which the differential pressure and a pressure in accordance with the correction value are inputted and which introduce the oil pressure of the value into the pressing device.

8. (new) A toroidal-type continuously variable transmission comprising:

first and second disks respectively including inner surfaces and disposed so as to be concentric with each other;

a plurality of power rollers which are interposed between and held by the mutually facing inner surface of the first and second disks and transmits force between the first and second disks;

a support member swingable and shiftable about a pivot shaft in transmission with the power rollers rotatably supported;

an actuator of an oil pressure type including a cylinder, a piston and a pair of oil pressure chambers separated by the piston, and which shifts the support member in the axial direction of the pivot shaft in accordance with supply and exclusion of the pressure oil in the pair of oil pressure chambers;

a pressing device pressing the first disk toward the second disk in accordance with a pressing oil pressure;

a control unit that electrically finds an optimum value of a pressing force to be generated by the pressing device according to the transmission ratio between the first and second disks;

a first valve into which pressures in the pair of pressure chambers are inputted and which outputs a differential pressure in accordance with a difference between the pressure in the pair of pressure chambers;

a correction valve which outputs a correction pressure determined in accordance with the optimum value found by the control unit; and

a second valve into which the differential pressure outputted from the first valve and the correction pressure outputted from the correction valve, and which introduces, into the pressing device, the pressing oil pressure in accordance with the input.